



FX-142

Due July 4

June 21, 1963

R. C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

Oil Conservation Commission
Box 871
Santa Fe, New Mexico

Re: Application for Administrative
Approval for Conversion of Five
Unit Wells to Water Injection
Wells, Malmar Unit, Lea County,
New Mexico

Gentlemen:

As provided in the Oil Conservation Commission Order No. R-2155, Great Western Drilling Company, as operator of the Malmar Unit, requests administrative approval for the conversion of the following Unit Wells to water injection wells:

| <u>Unit Well No.</u> | <u>Location</u> |
|----------------------|---|
| 7-6 | SE/4 of NW/4 of Sec. 7, T-17-S, R-33-E |
| 7-10 | NW/4 of SE/4 of Sec. 7, T-17-S, R-33-E |
| 7-16 | SE/4 of SE/4 of Sec. 7, T-17-S, R-33-E |
| 13-2 | NW/4 of NE/4 of Sec. 13, T-17-S, R-32-E |
| 13-8 | SE/4 of NE/4 of Sec. 13, T-17-S, R-32-E |

Well No. 7-5, an offset to well 7-6 has received response to the water injection in this unit. In May this well tested 8 barrels of oil per day - as of June 12 and 13, this well tested 10 barrels each day. Well 7-15, an offset to wells 7-10 and 7-16 tested 6 and 8 barrels in May. As of June 15 and 16 tests of 10 barrels per day were made. Well 13-1, an offset to wells 13-2 and 13-8 tested 11 barrels per day in May. As of June 18 and 19 tests of 18 barrels per day were reported.

We respectfully submit that the ultimate recoverable oil from the Malmar Unit reservoir will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system if the Unit Wells No. 7-6, 7-10, 7-16, 13-2 and 13-8 are not converted to water injection at this time.




Attached to this application are: The C-116 of Great Western Drilling Company's wells 7-5, 7-15 and 13-1, before and after stimulation; a plat of the area showing all producing, water injection and proposed water injection wells; and offset operators.

Waivers from offset operators are being requested at this time, to expedite this program.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By 
O. H. Crews

OHC/bl

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Maljamar
ADDRESS Box 1659, Midland, Texas MONTH OF May, 19 63
SCHEDULED TEST _____ COMPLETION TEST _____ SPECIAL TEST X (Check One)
(See Instructions on Reverse Side)

Malmar Unit

| Lease | Well No. | Date of Test | Producing Method | Choke Size | Test Hours | Daily Allowable Bbls. | Production During Test | | | GOR Cu. Ft. Per Bbl. |
|--------------------------|----------|--------------|------------------|------------|------------|-----------------------|------------------------|-----------|---------|----------------------|
| | | | | | | | Water Bbls. | Oil Bbls. | Gas MCF | |
| Tract 3 | 7-5 | 5-28 | Pump | | 24 | 6 | 0 | 8 | 31.6 | 3950 |
| Tract 4 | 7-15 | 5-29 | Pump | | 24 | 10 | 0 | 8 | 24.8 | 3100 |
| Tract 1 | 13-1 | 5-30 | Pump | | 24 | 12 | 0 | 11 | 33. | 3000 |
| Tests before stimulation | | | | | | | | | | |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date June 21, 1963

GREAT WESTERN DRILLING COMPANY
Company

By O.H. Crews
O.H. Crews
Administrative Coordinator
Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Maljamar
ADDRESS Box 1659, Midland, Texas MONTH OF June, 1963
SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST X..... (Check One)
(See Instructions on Reverse Side)

Malmar Unit

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|--|----------|--------------|------------------|------------|------------|-----------------------|------------------------|-----------|---------|----------------------|
| | | | | | | | Water Bbls. | Oil Bbls. | Gas MCF | |
| Tract 3 | 7-5 | 6-13 | Pump | | 24 | 6 | 0 | 10 | 24.5 | 2450 |
| Tract 4 | 7-15 | 6-16 | Pump | | 24 | 10 | 0 | 10 | 25.1 | 2510 |
| Tract 1 | 13-1 | 6-19 | Pump | | 24 | 12 | 0 | 18 | 36.1 | 2000 |
| Tests after stimulation by waterflood. | | | | | | | | | | |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

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GREAT WESTERN DRILLING COMPANY
Company

By O.H. Crews
O.H. Crews

Administrative Coordinator
Title



EXHIBIT 'A'

GREAT WESTERN DRILLING COMPANY

MALMAR UNIT

LEA COUNTY, NEW MEXICO

● Stimulated Well
○ Proposed inj.

● Producing Well
● Injection Well



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

June 28, 1963

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company which seeks administrative approval for conversion of Wells 7-6, 7-10, 7-16, 13-2 and 13-10, to water injection wells, which was submitted June 27, 1963.

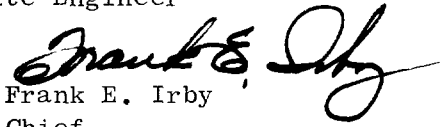
In view of Mr. Crews' statements, pertaining to the wells, that injection will be down 2" tubing under a packer set well below the top of the cement surrounding the casing, this office offers no objection to the granting of the application.

Very truly yours,

S. E. Reynolds
State Engineer

ma

cc-Great Western Drilling Co.
F. H. Hennighausen

By: 
Frank E. Irby
Chief
Water Rights Division